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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,821	05/26/2006	Kenji Hayashi	128189	7402
25944 7590 10/03/2008 OLIFF & BERRIDGE, PLC			EXAMINER	
P.O. BOX 320850			EVANS, GEOFFREY T	
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			2852	
			MAIL DATE	DELIVERY MODE
			10/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. | Applicant(s) | 10/580,821 | HAYASHI ET AL. | Examiner | GEOFFREY T. EVANS | 2852 | -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -eriod for Reply | A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of the communication.	
If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the maining date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (38 U.S.C.§ 133). Any reply received by the Office later than three months after the maining date of this communication, even if timely filled, may reduce any earned patient term adjustment. See 30 TCR IT.70HQb.)	
Status	
1)⊠ Responsive to communication(s) filed on <u>26 May 2006</u> .	
2a) ☐ This action is FINAL . 2b) ☒ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims	
4)⊠ Claim(s) <u>1,4-8,10,11 and 13-15</u> is/are pending in the application.	
4a) Of the above claim(s) is/are withdrawn from consideration.	
5) Claim(s) is/are allowed.	
6)⊠ Claim(s) <u>1.4-8.10.11 and 13-15</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election requirement.	
Application Papers	
9)☐ The specification is objected to by the Examiner.	
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119	
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:	
— — —	
Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No.	
Copies of the certified copies of the priority documents have been received in this National Stage	
application from the International Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list of the certified copies not received.	
oce the attached dotalies office action for a list of the certified copies not received.	
Attachment(s)	
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)	

Attachment(s) | Molice of References Cited (PTO-892) | 1 | Interview Summary (PTO-413) | Paper No(s)/Mail Date. | Paper

DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed

Claim Objections

Claim 1 is objected to because the phrase, "the prescribed periods of time," which appears in the last paragraph of claim 1, lacks proper antecedent basis. Claim 1 recites that every time the number of continuously image-formed sheets reaches a prescribed number of sheets of the image recording medium, at least one of the photoreceptor drum, the developing means, or the transfer means is halted for a prescribed period of time. This language means that there *may* be a plurality of such prescribed periods of time, or there may be a single such prescribed period of time. The phrase, "the prescribed periods of time," necessarily refers to a plurality, and therefore refers to a limitation without proper antecedent basis.

Appropriate correction is required.

Examiner has interpreted this phrase as "the <u>at least one</u> prescribed periods of time," as Applicant apparently intended.

Claim 1 also contains an obvious typographical error. The word, "the," is inadvertently repeated in the last line.

Appropriate correction is required.

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Examiner has interpreted this phrase without the second instance of the word, "the." as Applicant clearly intended.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4-8, 10-11, and 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Hara et al. (JP publication 2002-304102).

Regarding claim 1, and claims 4-5, 7-8, 13, and 15 depending therefrom, Hara et al. disclose an image forming apparatus, comprising:

a photoreceptor drum on which, in a driven state, an electrostatic latent image of an image for image formation is optically formed (PR; see paragraph [0010], and figure 1);

developing means which, in a driven state, toner-develops the electrostatic latent image formed on the photoreceptor drum (G; see paragraph [0027], and figure 1);

transfer means for, in a driven state, transferring to an image recording medium the developed image obtained by toner development by the developing means (BM: see paragraph [0028], figure 1); and

control means (C; see paragraph [0029]) which, when instruction information for instructing formation of the developed image on a plurality of sheets of the image recording medium is inputted, controls driving of the photoreceptor drum, the developing means and the transfer means such that formation of the developed image on the plurality of sheets of the image recording medium according to the instruction information is continuously performed (see paragraph [0042] for all limitations), and controls driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least once (see paragraph [0042] for all limitations); and

a fuser, which fixes the developed image transferred to the image recording medium on the image recording medium by heat (see paragraph [0034]; and figure 2); and wherein

the control means controls at least one of the photoreceptor drum, the developing means or the transfer means such that, every time the number of continuously image-formed sheets reaches a prescribed number of sheets of the image recording medium, at least one of the photoreceptor drum, the developing means or the transfer means is halted for a prescribed period of time (see paragraph [0042]), and

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the prescribed number of sheets and the <u>at least one</u> prescribed periods of time are determined as those with which image formation on the image recording medium can be continuously performed by the prescribed number of sheets (see paragraph [0042]) without the the fuser exceeding a prescribed temperature (see paragraph [0020]).

Regarding claim 4, and claims 5, 7-8, 13, and 15 depending therefrom, Hara et al. disclose the image forming apparatus of claim 1, further comprising:

specification means for specifying a type of the image recording medium (see paragraph [0041]),

memory means which stores in advance the prescribed number of sheets and the prescribed period of time according to the type of the image recording medium for each type of the image recording medium (see the last few lines of paragraph [0010]), wherein

the control means carries out the control by reading out the prescribed number of sheets and the prescribed period of time according to the type of the image recording medium that has been specified by the specification means from the memory means (see paragraph [0042]).

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Regarding claim 5, and claim 13 depending therefrom, Hara et al. disclose the image forming apparatus of claim 4, wherein the type of the image recording medium is the type according to at least one of a size of the image recording medium, a thickness of the image recording medium, or a material of the image recording medium (see paragraphs [0040] and [0048]; bond paper and pasteboard are different thickness and composition; it's worth noting that rectangular recording sheets cannot vary in any respect other than size, thickness, and composition, therefore different types of recording medium vary in these respects).

Regarding claim 13, Hara et al. disclose the image forming apparatus of claim 5, further comprising inputting means for inputting information which indicates the type of the image recording medium (see paragraph [0041]), wherein

the specification means performs the specification on the basis of the type of the image recording medium inputted by the inputting means (see paragraph [0042], and the last few lines of paragraph [0010]).

Regarding claim 7, and claim 15 depending therefrom, Hara et al. disclose the image forming apparatus of claim 4, wherein the specification means further specifies whether the type of the image recording medium is a first type of predetermined regular size, or a second type of non-regular size other than the regular size (see paragraphs [0040] and [0048]; bond paper and pasteboard are different thickness and composition; it's worth noting that rectangular recording sheets cannot vary in

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any respect other than size, thickness, and composition, therefore different types of recording medium vary in these respects), and

the control means controls driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing

means or the transfer means is halted at least once (see paragraph [0042]).

Regarding claim 15, Hara et al. disclose the image forming apparatus of claim 7, further comprising inputting means for inputting information which indicates the type of the image recording medium (see paragraph [0041]), wherein

the specification means performs the specification on the basis of the type of the image recording medium inputted by the inputting means (see paragraph [0042], and the last few lines of paragraph [0010]).

Regarding claim 8, Hara et al. disclose the image forming apparatus of claim 4, further comprising inputting means for inputting information which indicates the type of the image recording medium (see paragraph [0041]), wherein

the specification means performs the specification on the basis of the type of the image recording medium inputted by the inputting means (see paragraph [0042], and the last few lines of paragraph [0010]).

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Regarding claim 6, and claim 14 depending therefrom, Hara et al. disclose an image forming apparatus, comprising:

a photoreceptor drum on which, in a driven state, an electrostatic latent image of an image for image formation is optically formed (PR; see paragraph [0010], and figure 1);

developing means which, in a driven state, toner-develops the electrostatic latent image formed on the photoreceptor drum (G; see paragraph [0027], and figure 1);

transfer means for, in a driven state, transferring to an image recording medium the developed image obtained by toner development by the developing means (BM; see paragraph [0028], figure 1); and

control means (C; see paragraph [0029]) which, when instruction information for instructing formation of the developed image on a plurality of sheets of the image recording medium is inputted, controls driving of the photoreceptor drum, the developing means and the transfer means such that formation of the developed image on the plurality of sheets of the image recording medium according to the instruction information is continuously performed (see paragraph [0042] for all limitations), and controls driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least once (see paragraph [0042] for all limitations);

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specification means for specifying whether a type of the image recording medium is a first type of predetermined regular size, or a second type of non-regular size, other than the regular size (see paragraphs [0040], [0041] and [0048]; bond paper and pasteboard are different thickness and composition; it's worth noting that rectangular recording sheets cannot vary in any respect other than size, thickness, and composition, therefore different types of recording medium vary in these respects), wherein,

when the type of the image recording medium is specified to be the second type by the specification means, the control means controls driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least once (see paragraph [0042]).

Regarding claim 14, Hara et al. disclose the image forming apparatus of claim 6, further comprising inputting means for inputting information which indicates the type of the image recording medium (see paragraph [0041]), wherein

the specification means performs the specification on the basis of the type of the image recording medium inputted by the inputting means (see paragraph [0042], and the last few lines of paragraph [0010]).

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Regarding claim 10, and claim 11 depending therefrom, Hara et al. disclose an image formation method for an image forming apparatus, comprising a photoreceptor drum on which, in a driven state, an electrostatic latent image of an image for image formation is optically formed (PR; see paragraph [0010], and figure 1); developing means which, in a driven state, toner-develops the electrostatic latent image formed on the photoreceptor drum (G; see paragraph [0027], and figure 1); and transfer means for, in a driven state, transferring a developed image obtained by toner development by the developing means to an image recording medium (BM; see paragraph [0028], figure 1), including:

when instruction information for instructing formation of the developed image on a plurality of sheets of the image recording medium is inputted, controlling driving of the photoreceptor drum, the developing means and the transfer means such that formation of a developed image on a plurality of sheets of the image recording medium according to the instruction information is continuously performed (see paragraph [0042] for all limitations), and controlling driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least once (see paragraph [0042] for all limitations);

specifying whether a type of the image recording medium is a first type of predetermined regular size, or a second type of non-regular size other than the regular size (see paragraphs [0040], [0041] and [0048]; bond paper and pasteboard are

different thickness and composition; it's worth noting that rectangular recording sheets cannot vary in any respect other than size, thickness, and composition. therefore different types of recording medium vary in these respects), and

controlling driving of at least one of the photoreceptor drum, the developing means or the transfer means such that, in the course of the continuous image formation, driving of at least one of the photoreceptor drum, the developing means or the transfer means is halted at least once (see paragraph [0042]).

Regarding claim 11, Hara et al. disclose the image formation method of claim 10, further including:

controlling at least one of the photoreceptor drum, the developing means or the transfer means such that, every time the number of continuously image-formed sheets reaches a prescribed number of sheets of the image recording medium, at least one of the photoreceptor drum, the developing means or the transfer means is halted for a prescribed period of time (see paragraph [0042] for all limitations).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEOFFREY T. EVANS whose telephone number is (571)272-2369. The examiner can normally be reached on 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on (571) 272 2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-830.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR anly. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David M Gray/ Supervisory Patent Examiner, Art Unit 2852

GTE